

# **PHENIX**

# **WEEKLY PLANNING**

10/16/2008

Don Lynch

# IR Configuration for remainder of shutdown

October				November				December				January				
5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25

**Station 1 north access now-10/17**  
 (Current Configuration:  
 CM & MMS south WC west



**Run Position 10/20 - 10/31**  
 (CM & MMS moved north WC west)



**Station 1 south access 11/3-12/12**  
 (MMS moved south WC west)



**Station 1 north access 12/15-12/31**  
 (CM moved south, WC west)



**East Carriage Install 1/2-1/15**  
 (CM moved north, EC & WC opt.)



**Run Position 1/16-1/19**  
 (MMS moved north, EC & WC opt)



**Ready for run 9 1/19-2/1**  
 (MuID Collars Installed, EC & WC opt.)



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10/16/08

October	November	December	January
5 12 19 26	2 9 16 23 30	7 14 21 28	4 11 18 25

Station 1 north access now-10/15



(Current Configuration:

CM & MMS south WC west

Install & test Sta. 1 N cards

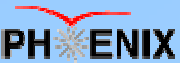
-----DONE-----

Remove Sta 1 N scaffold 10/16-10/17 

	October	November	December	January
	5 12 19 26	2 9 16 23 30	7 14 21 28	4 11 18 25
Run Position 10/15 - 10/31 (CM & MMS moved north WC west)	↔			
Move CM & MMS north 10/20-10/21	-			
MuTrigger S rack ass'y	<DONE>			
RPC proto rack assy by 10/15	↔			
water & Elec prep 10/17-10/31	↔			
RPC2 proto gas system by 10/31	↔			
RPC proto cable by 10/31 routing & support	↔			
Install RPC2 prototype 10/20-10/31	↔			
PC1 West repairs 10/20-10/31	↔			

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# Shutdown '08 Schedule



October    November    December    January  
 5 12 19 26    2 9 16 23 30    7 14 21 28    4 11 18 25

**Station 1 south access 11/3-12/12**  
 (MMS moved south WC west)



Move MMS south                      11/2



Install sta 1. S Scaffolds 11/3-11/7



HBD Installation (west) 11-3-11/10  
 (east) 12/17-12/31



MuTrigger FEE                      11/10-11/14  
 Sta 1 S chasis install



Sta 1, 2 & 3 chasis                      11/10-11/14  
 Water & air



Install/test cards                      10/2-11/30  
 sta 2&3 N and sta 1, 2 & 3 S



Install Lead absorber 11/17-11/21



Install FEE S rack platform 11/17-11/21  
 And racks



FEE S Cabling & Testing 11/24-11/29



MuTr sta 1 S Decaps                      12/1-12/12



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10/16/08

October				November				December				January				
5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25

Station 1 north access 12/15-12/31  
(CM moved south, WC west)



Remove Sta 1 S 11/24-12/18  
And Sta 2/3 N scaffolds



Move CM south 12/18



Install MMS lampshade 12/18-12/21



Install MMN lampshades 12/18-12/31



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October				November				December				January				
5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25

**East Carriage Install** 1/2-1/15  
(CM moved north, EC & WC opt.)



**Install EC** 1/2-1/15



**Run Position** 1/16-1/19  
(MMS moved north, EC & WC opt)



**Move MMS North** 1/16



**Ready for run 9** 1/19-2/1  
(MuID Collars Installed, EC & WC opt.)



**DC East/West Repairs** 1/16-2/1



**Install MuID Collars** 1/19-1/21



**Pink/Blue/White Sheets** 1/16-2/1



**Close Shield Wall** 126-1/30



**Cryo Start Up, Start Physics** 2/1-2/18



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10/16/08

October				November				December				January				
5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25

## Other On going Tasks

Fan Tray Maintenance (fill in)



RPC3 Prototype install (by 12/31)  
(including assembly at factory,  
Moving tunnel shielding, modify  
Crystal palace & vapor barrier,  
RPC3 install, rack, services & testing)



RPC Factory Support



Dark Current test stand

Storage Racks with humid. Cntrl



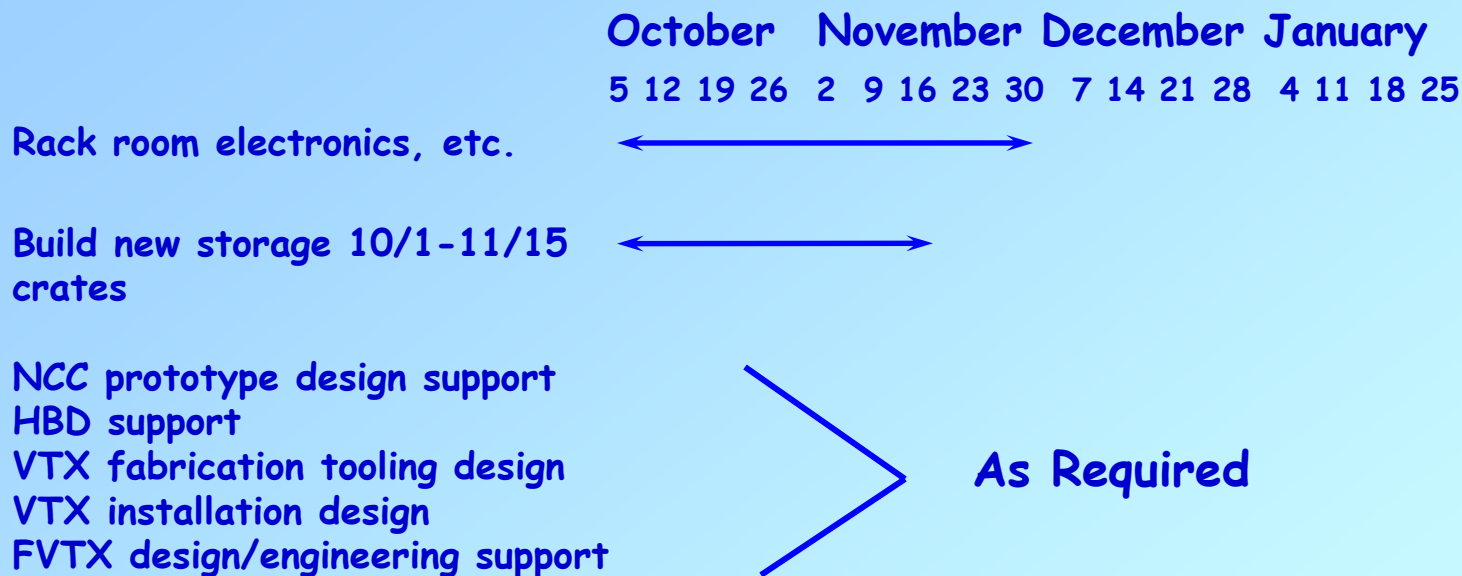
Prep for 2009 Shutdown  
(as time permits)



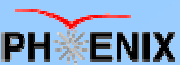
Gas Mixing house UPS by 11/30



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# Shutdown '08 Electrician Work



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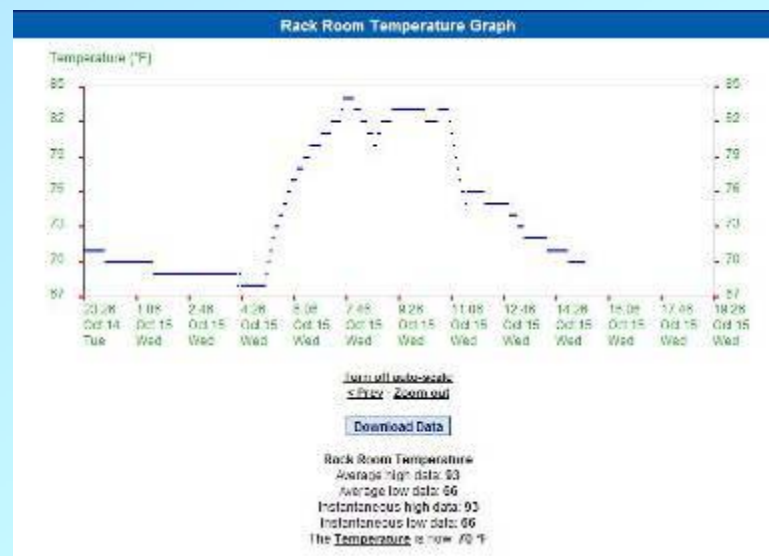
1. Run Power to new MuTrgr FEE racks on MMS. *by 10/31*
2. Install 120 volt AC power drops into new control room annunciator alarm rack (rack room). *Work in progress, to be completed by 10/15.*
3. Re-wire ToF Rack power distribution bucket in Gas Mixing House. This is to correct minor wiring errors. *By 10/31/08*
4. Install new UPS in Gas mixing house. *By 11/30*
5. Walk down PHENIX Electrical Distribution Panels/Breakers and update changes on the electrical one-line drawings. *Complete by 11/30/08.*
6. Install power and signal cable tray (ceiling suspended) for new DCM rack row - north of existing DCM racks. *To Be Scheduled*
7. Assist in signal and LV cable installation for MuTr/ RPC upgrades as necessary. *MuTrgr North Done, MuTrgr South & RPC Prototype to be scheduled*
8. Repair Duct heaters for Control Room. *To Be Scheduled before it gets cold*
9. Upgrade power capacity of Central Magnet power distribution for future bridge rack loads.
  - a) Remove existing 15KVA transformer and install 45KVA unit.
  - b) Install new (larger size) power cable from rack room to Central Magnet distribution breaker panels.

*Lower priority not required for run 9, to be scheduled when manpower available and operations & projects inconvenience are minimized*

10/16/08

# 1008 Building Maintenance Iss

- Roof leak in utility bathroom at northwest corner behind tech offices.
- Roof leak over door between rack room and assembly hall.
- New Carpet for Control Room
- Trailer bathroom slop sink (for Custodians).
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- New duct heater
- Improved Rack Room AC performance



# MuTrigger FEE South & RPC Prototype Racks

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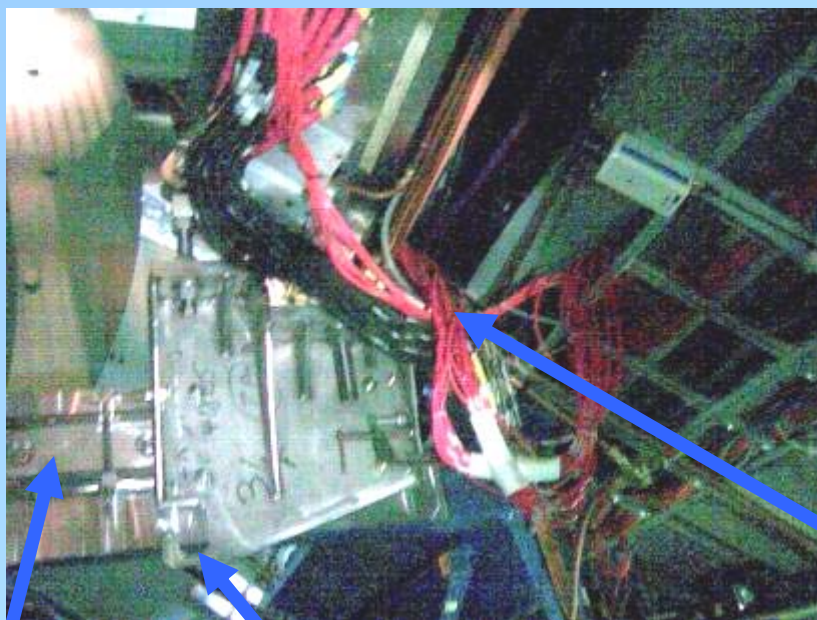


**MuTrigger FEE S Rack is done.**

**Work on these racks is in progress**

Scheduled for 10/20-10/31

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Bearing rails

Translation Bar  
(pushing surface) is  
placed here



Cabling and piping must be  
carefully evaluated and  
disconnected or allowed to  
travel as appropriate

10/16/08

(Note: DC East shown below;  
West is similar)

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~12"

Electronics repair to be accessed in  
this area after DC is moved east  
Work permit is in progress.



Entire DC must be  
moved east ~10"

## RPC2 Prototype Installation

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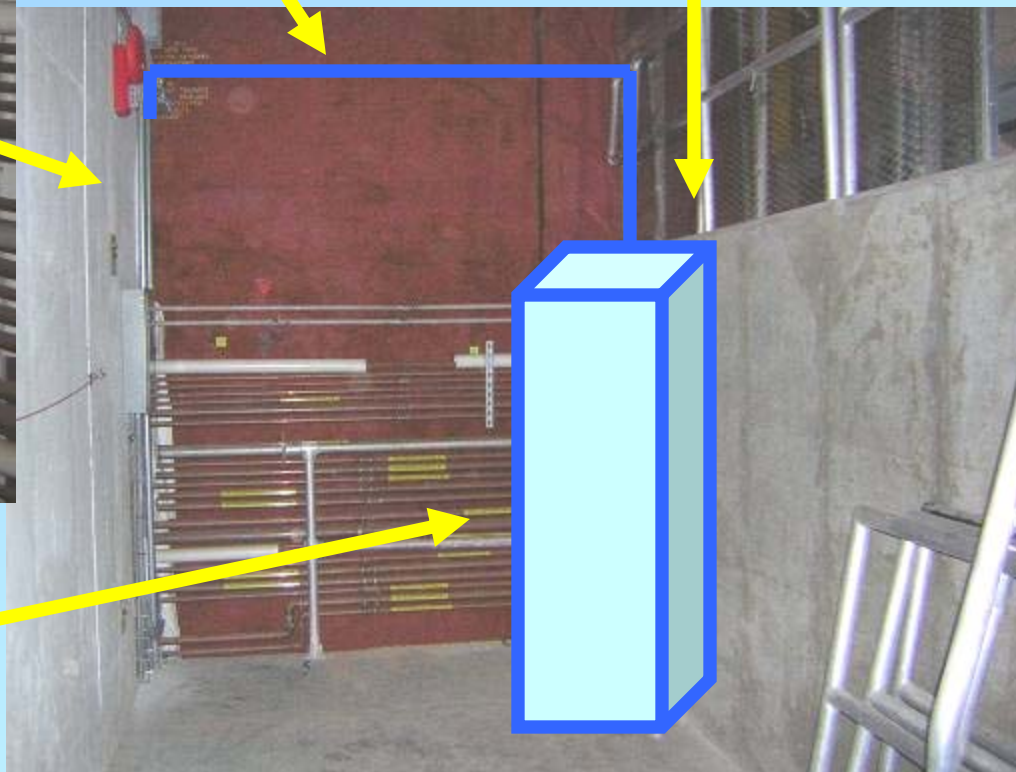
RPC prototypes will be  
ready for installation as  
follows: RPC3 10/13,  
RPC2: 10/20

## RPC2 Prototype Rack



Power bridges  
across to Rack

Cable tray runs on  
edge of pedestal  
floor to rack

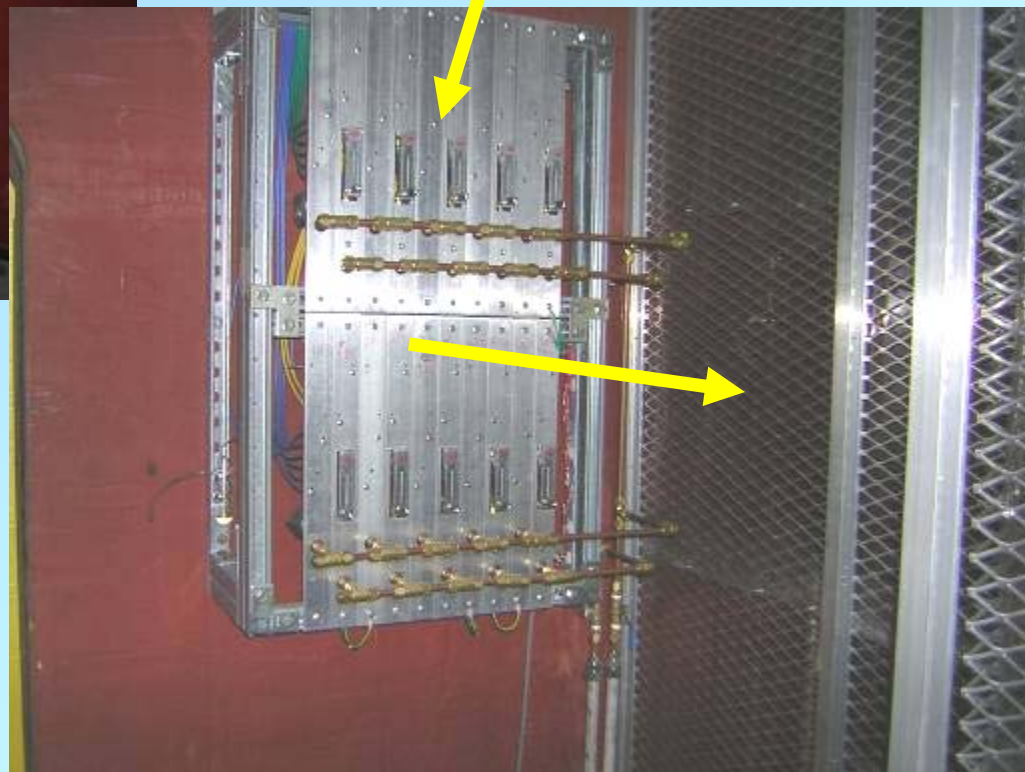


Rack goes here



Cables go under magnet to west side of pedestal

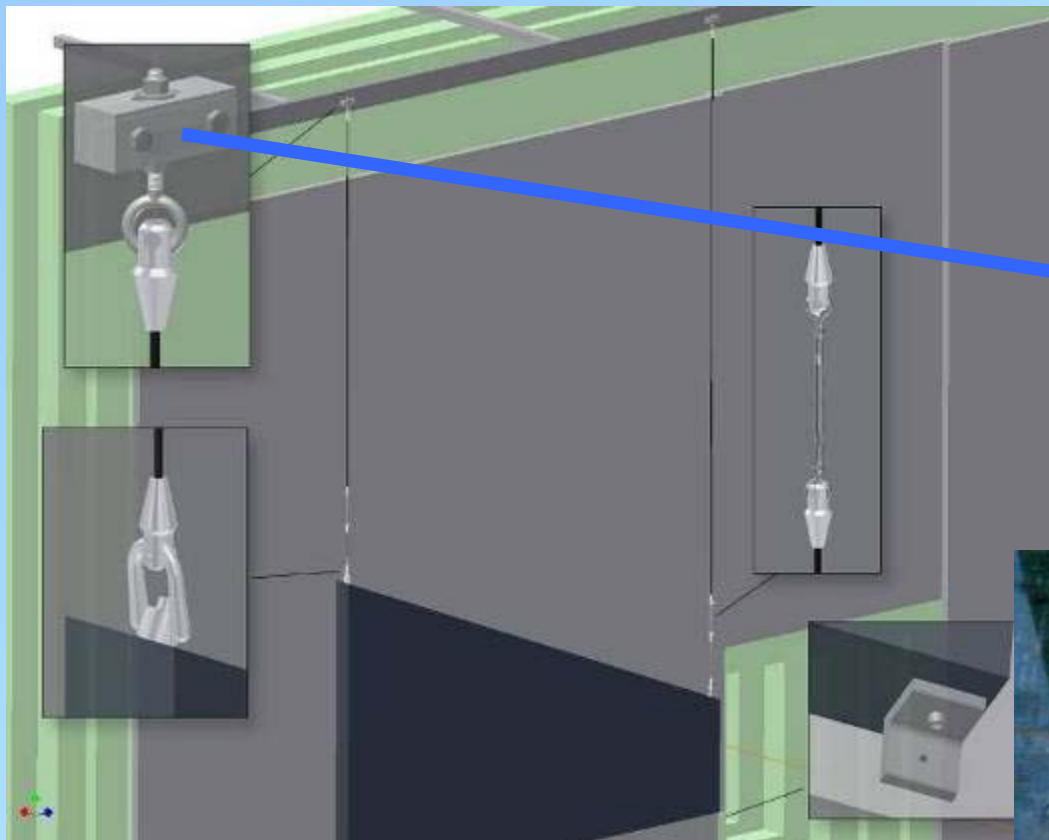
Gas flow rack and gas lines to be taken off MuID steel and moved to crystal palace wall



# RPC2 Prototype Installation

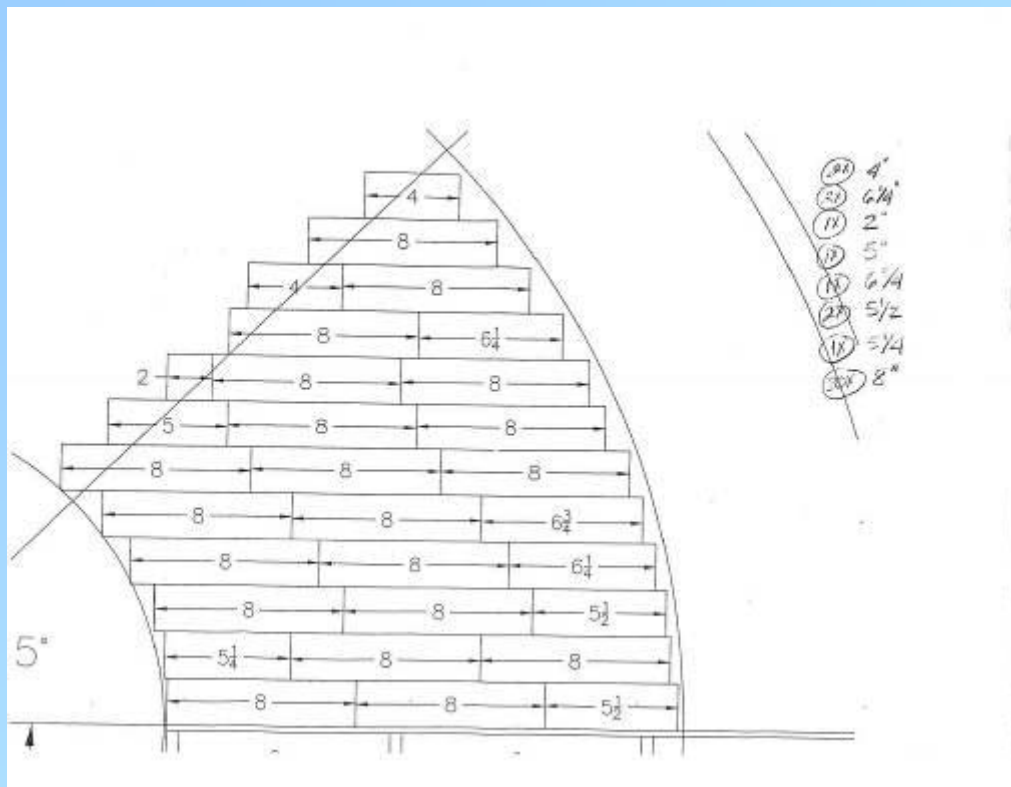
Scheduled for 10/20-10/31

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# RPC Absorber

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We need 80 2x4x8 and 28 2x4xZ, where Z is 13 different lengths of varying quantities between 1-1/2" and 6-3/4"

RFQ placed with CS

J. Scott will deliver 120 2x4x8 rad clean and painted lead bricks, on skid to 1008 by 10/15

Don, Jimmy, Kenny, Carter, John and Mike L. must take TQ-LEAD1 (web course) by 10/15

Checking into lead cutting at SUNYSB

Work permit req'd

## RPC2 Factory Storage area



Dark Current  
Test Stand  
components  
received.



RPC group to dispose of shipping  
containers and left over equipment to  
keep storage area uncluttered.



Gap and Module storage plan written and  
will be made a part of the overall RPC  
factory plan.



## MuTr Decapacitations

Remaining 2008 work: Station 1 South to be done  
~ 12/1-12/15 simultaneously with MuTrgr South  
and RPC absorber installations. Will require Station  
1 scaffolding on south side of CM.



(Note: picture at left is  
mirrored image of  
scaffolding in station 1  
north.)

# Scaffolding Crates

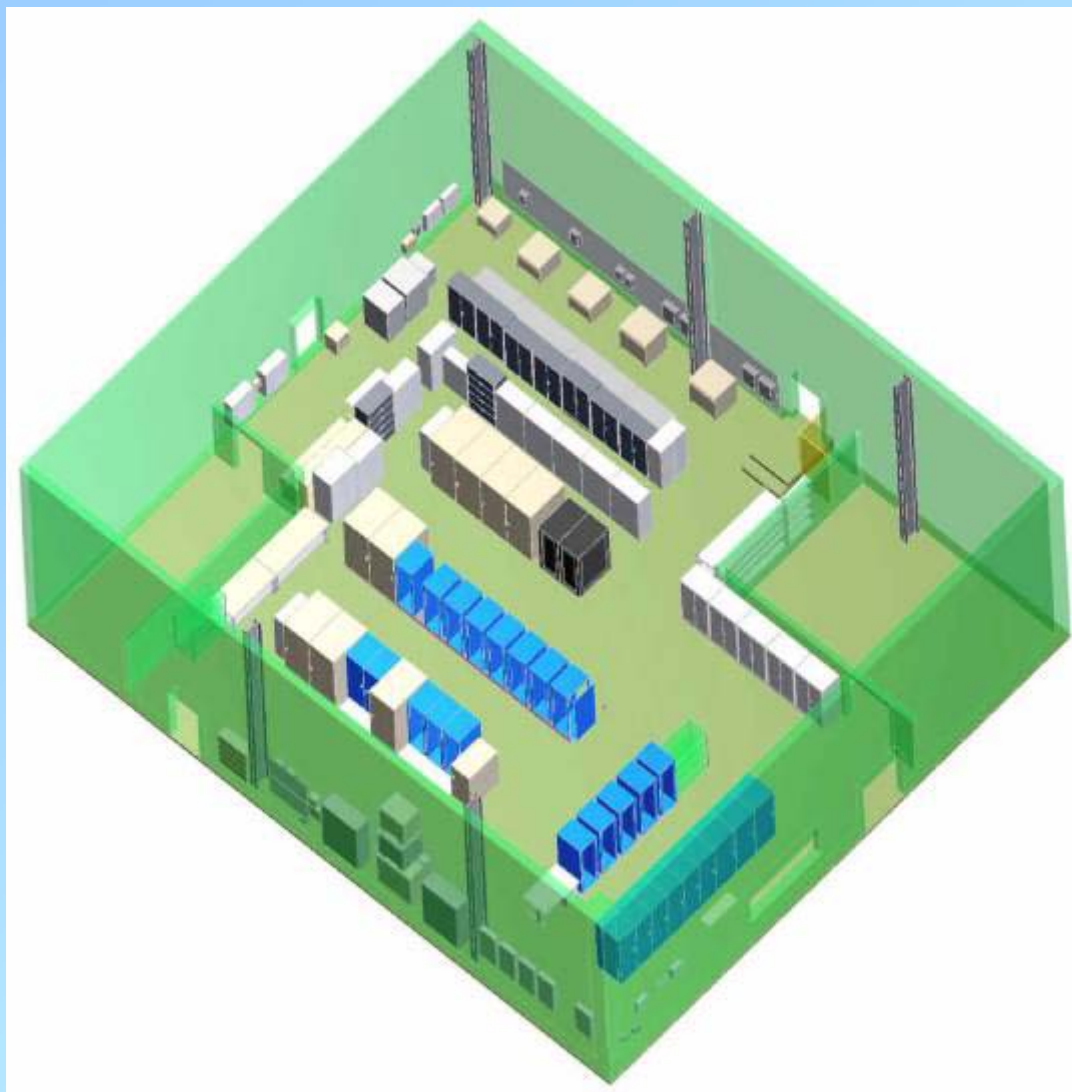
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Existing Crates for Sta 2/3N scaffolds are severely rotted and need to be replaced with weather resistant materials.

Sta. 1 scaffolds do not have storage crates. These need to be built of similar materials. All dimensions of crates are available.

# Rack Room Reorganization



Fairly accurate model  
of the current rack  
room configuration

Plumbing, HVAC and  
cable management,  
items in machine shop  
and items in laser  
room omitted

# Safety, Security, etc.

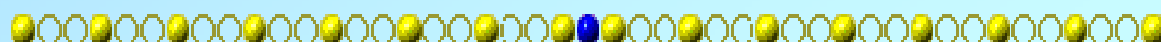


# Where To Find PHENIX Engineering Info



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Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_SSint-page.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm)